

32. In the system of claim 31,

Said detector means detecting the different traffic controls and restrictions at different locations as the vehicle proceeds toward the selected end zone and energizing said visual display to display said traffic controls and restrictions within the vehicle.

33. In the system of claim 31, the ~~street~~ and road addresses being identified by digital codes, and said ~~vehicle~~ detector means detecting said codes and energizing the visual display to display the identities of such street and road addresses.

34. In the system of claim 31, an audible announcer within said vehicle energized by said detector means to audibly announce the displayed information.

Please withdraw dependant claims 9,10,and 11.

Withdraw claim 12, and substitute claim 35, 36, and 37 as follows:

35. In a two part electronic navigation system for guiding a movable vehicle to a selected end zonal area containing a specific destination that may include an individual building or street address, and wherein said system guides the vehicle by heading direction over longer distances from its changeable actual locations toward said end zonal area, and subsequently guides said vehicle when within said end zone area by pictorial images, to said specific location comprising:

said system having a detecting means for continually detecting the location of the vehicle with reference to said end zonal area, and a communicating means responsive to said detecting means for continually

communicating the direction heading of the vehicle toward said zonal area,
and pictorial generating means energized by said detecting means to
communicate a detailed representation of structures within the end zonal
area, including the roads, intersections, and streets together with land and
improvements thereon, thereby enabling the guidance of the vehicle to said
specific destination. —

Please withdraw dependant claims 13,14,15,16,17,18, and 19.

Please add the following dependant claims:

--36. In the navigation system of claim 35, the streets including street
addresses and including those of the individual buildings and structures
within said end zonal area, being identified by digitally coded signs, and said
detection means reading said signs to communicate the specific information
thereof in said detailed pictorial representation.—

--37. In the navigation system of claim 35, the pictorial information being
communicated including the identities of buildings and structures, the
names of streets-roads, and traffic restrictions including speed limits,
reduced speed regions, one way streets, parking facilities, gas stations, and
landmarks.—

Withdraw claims 23, 27, and 28.

Please amend claims 24 and 25 as follows:

On line 1, change "claim 21" to —claim 22—

Withdraw claim 26, and substitute claim 38 as follows:

--38. A digital guidance system for movable vehicles traveling along streets and roads comprising:

a plurality of digital information sources externally of the vehicle and dispersed along the streets and roads being traveled by the vehicle,

digital reader means for said vehicle for receiving information from said sources as the vehicle proceeds and conveying the received digital information within said vehicle,

communicating means within said vehicle for communicating the received messages to the vehicle occupants, said communicating means including a visual display,

said digital information sources comprising one of G.P.S. satellite signals, plural digitally coded street signs dispersed along said the streets and roads, and plural wireless transmitters disposed along said streets and roads,


said digital reader means including a memory having plural messages prestored therein, said messages including the locations of streets and roads, the names of streets and roads, traffic control information, locations of services facilities for vehicles, and landmarks and monuments,

said plural messages being stored at different digital addresses in the memory,

and said different information sources each containing a different code corresponding to a different address of the memory to access that address and read out a different message.

Pleas add the following dependant claims 39, 40, 41, and 42

--39. In the system of claim 38,,



said system including a two phase navigation system for initially guiding the vehicle between zonal areas by directional heading until reaching an end zonal area containing a selected destination, and upon reaching the end zonal area of the selected destination, then guiding the vehicle by a pictorial image identifying the streets, roads, and landmarks within the end destination zone until reaching the selected destination.

--40. In the system of claim 39,

said navigation system having a visual display screen within the vehicle for displaying both the directional heading during the initial first phase between zonal areas, and displaying the pictorial image of the end destination zone,

and means for changing the scale of enlargement on the display screen as the vehicle nears the selected destination.

--41. In the system of claim 40,

said vehicle having a conventional windshield for direct viewing of the streets and roads ahead of the vehicle, and said display screen being superimposed on said windshield.

Please add claim 42 as follows:

--42. A two part navigation system for vehicles, providing in one part a pictorial image within the vehicle of a small ending local zonal area containing a selected destination, which pictorial display includes local geographic information including the names and locations of street-roads, street addresses, structures, lands and improvements thereof; and provides in a second part a visual display of the heading direction to be followed by the vehicle from distant locations to said ending local zonal area,

sensing means for the vehicle for continually detecting the location of the vehicle referenced to said ending local zone area,

and local zone information generating means energized by said sensing means for generating the local geographic information,

said vehicle having a visual display screen,

and said sensing means and generating means energizing said display to display the heading direction for the vehicle to follow when located at a distance from its location to said ending local zonal area, and energizing said display to display the geographic information when said vehicle is located within said ending local zonal area.—

Please add the following dependant claims 43 . 44, and 45;

--43. In the system of claim 42, said vehicle having a wireless detector for detecting exteriorly located coded road signs containing said geographic information.--

144. In the system of claim 42, said vehicle having a memory prestoring said geographic information for a plurality of local zonal areas, said memory being accessed by said sensing means to selectively download the geographic information for the sensed location to said display screen--.

--45. In the system of claim 42, said visual display comprising a heads-up display on the vehicle windshield.--

Please add claims 46 to 50, as follows:

-46. A multimode navigation system for guiding a vehicle to a specific structure, street address or other specific location comprising:

sensor means for the vehicle for continually determining the changeable location of the vehicle referenced to said selected specific location,

directional heading communicating means energized by said sensor means for continually communicating the heading direction to be followed toward the destination when the vehicle is located at a longer distance from the destination, and pictoral display means for displaying detailed geographic information for guiding the vehicle when the vehicle is near the selected destination, whereby in a first mode of operation the vehicle is guided by direction heading over longer distances, and in a second mode of operation the vehicle is guided by a pictoral display of detailed geographic information including the specific destination --

--47. In the system of claim 46, said pictoral display means including a wireless detector for the vehicle for detecting coded road signs containing the detailed geographic information.--